

**PERMIT APPLICATION:** NRS #03-320

**APPLICANT:** Wayne Limbaugh, Director of Public Works  
City Of Tullahoma  
P.O. Box 807  
Tullahoma, TN 37388  
(931) 455 -2648

**LOCATION:** Project is located at Charlotte Circle in Tullahoma, Coffee County on an unnamed tributary to Poorhouse Creek.

**WATERSHED DESCRIPTION:** Surrounding land use is mostly residential with scattered woodlots. The unnamed tributary is an intermittent stream with a well-established canopy with a significant mature oak component.

**PROJECT DESCRIPTION:** The applicant proposes to implement 2400 linear feet of drainage improvement project for an unnamed tributary to Poorhouse Creek. It will consist of the installation of one box culvert, a 36-inch RCP, channel reconstruction at the existing stream crossings adjacent to the residential areas will involve the reduction in grade of about one foot and matching the profile of the stream to the road crossing, banks slopes increased from 1:1 to 2:1, developments of high flow shelves (in the wooded areas these shelves will be staggered to reduce impacts to the riparian canopy and no in-stream work is proposed).

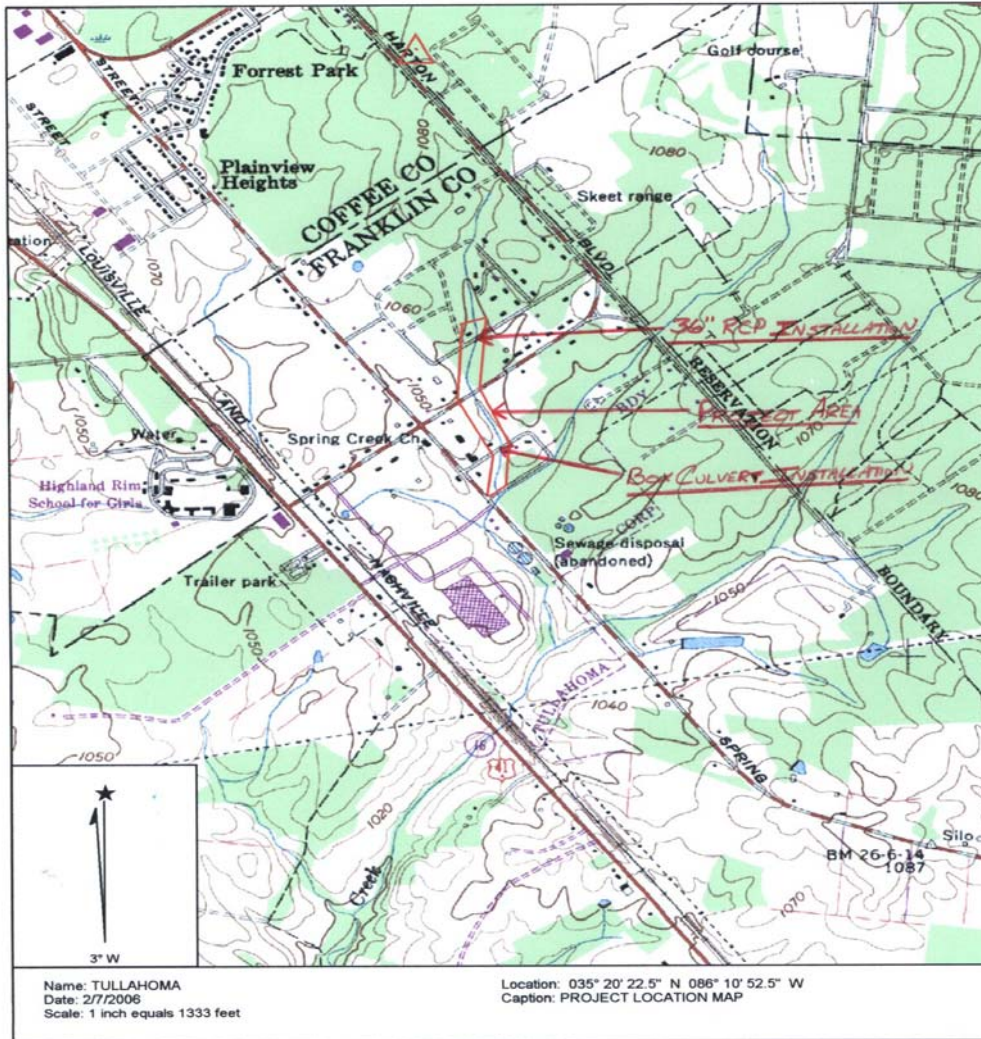
All areas of the project will be revegetated after completion of the project. Trees that are removed will be replaced at a 1:1 ratio except in the wooded area where they will be replaced in two alternating rows on 20-foot centers. Native trees at least 1.5 –inch dbh will be planted.

The work will be monitored for at least two years with annual report submitted to this office. An 80% survival rate will be guaranteed as well as the stabilization of all banks, substrate and the development of in-stream habitat.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will not result in degradation to water quality.

**PERMIT COORDINATOR:** Mike Lee

**TOPOGRAPHICAL QUADRANGLE:** Tullahoma 86-SW  
35.3432 N  
86.1823 W



**ARAP #03-320**  
**CITY OF TULLAHOMA**  
**PAGE 3.**

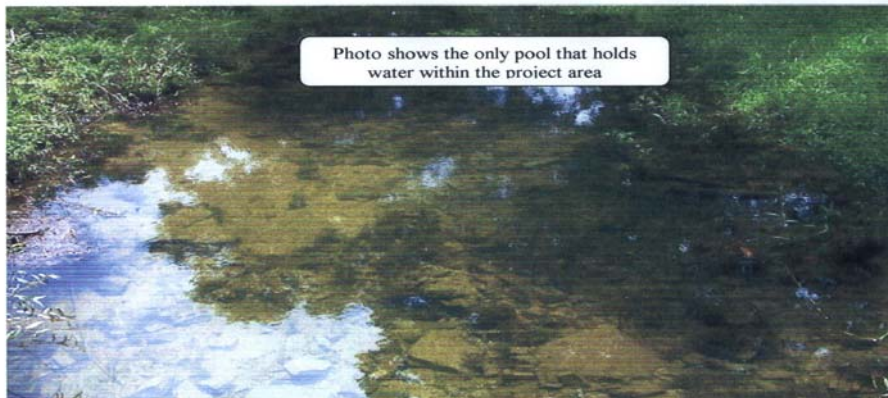
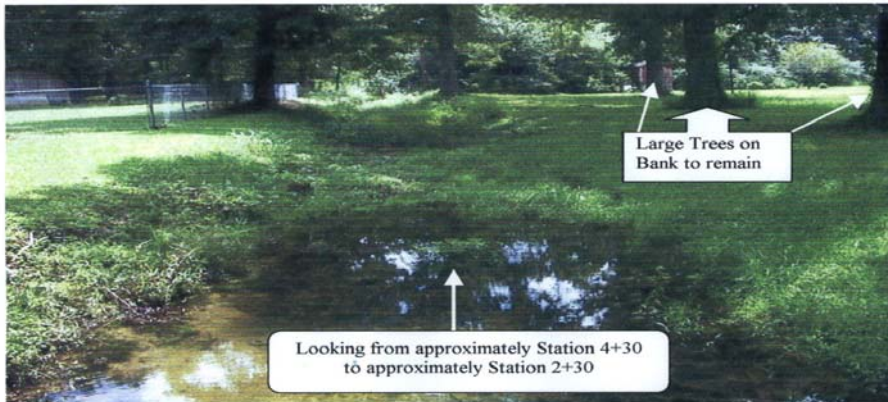
CHARLOTTE CIRCLE DRAINAGE IMPROVEMENTS  
TULLAHOMA, TENNESSEE  
AUGUST 2003  
104-03



Both pictures show the area of the proposed crossing during flooding conditions in 2002.



CHARLOTTE CIRCLE DRAINAGE IMPROVEMENTS  
TULLAHOMA, TENNESSEE  
AUGUST 2003  
104-03

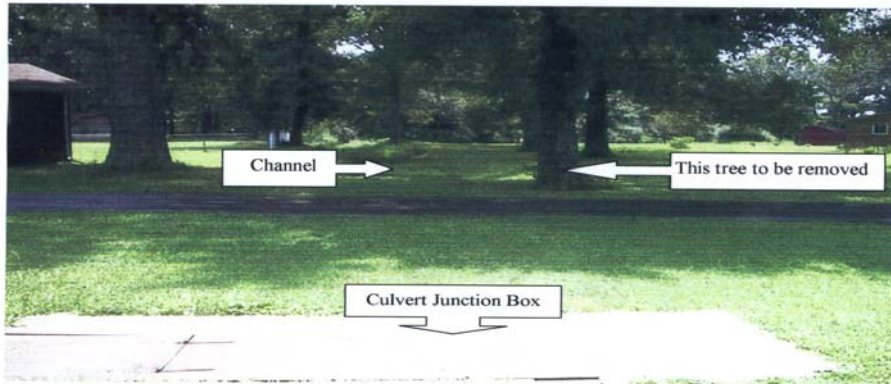




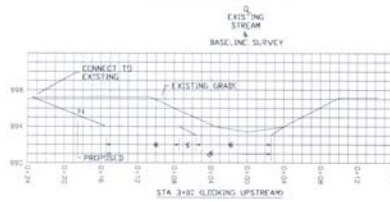
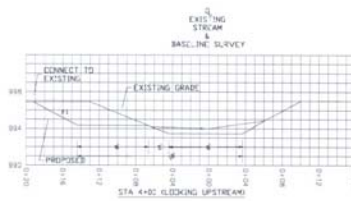
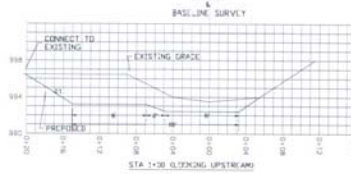
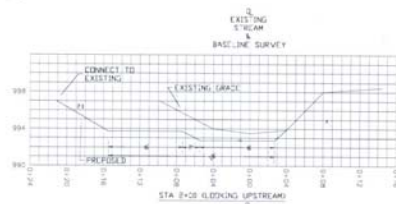
CHARLOTTE CIRCLE DRAINAGE IMPROVEMENTS  
TULLAHOMA, TENNESSEE  
AUGUST 2003  
104-03



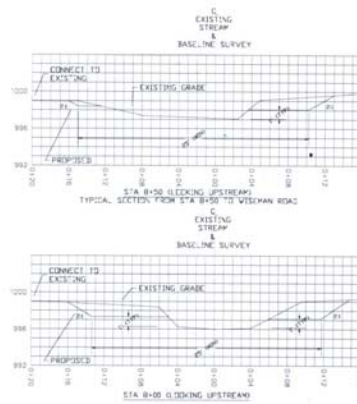
Photos show the upper (above) and lower (below) portions of the channel from the roadway at Charlotte Circle North.



ARAP #03-320  
CITY OF TULLAHOMA  
PAGE 6.



ARAP #03-320  
CITY OF TULLAHOMA  
PAGE 7.



#### REVEGETATION SUMMARY

All areas of the project will be appropriately revegetated following construction. Trees that are removed within maintained yards will be replaced at a 1:1 ratio. The replacement tree will be located as close as possible to the location of the tree that was removed. In wooded areas of the project, trees will be planted in two rows with trees staggered at 20' maximum spacing between each tree. The trees will be native tree species capable of surviving wet and dry conditions. An 80% survival rate will be achieved. All trees will be a minimum of 1-1/2" caliper. Larger trees will be planted in yards where mature trees have to be removed.

All disturbed areas of the projects will be seeded and mulched. A high density erosion control mat will be utilized within the channel to control erosion until the vegetation is well established.

Planting will be accomplished as follows:

LOCATION	TREE SPACING
Station 0+00 to Station 2+45	2 Rows Staggered at 20' maximum
Station 2+45 to Station 7+30	Replace only trees removed
Station 7+30 to end of project	2 Rows Staggered at 20' maximum

Seeding will be accomplished with an appropriate seed mixture for the season in which the seeding is to be accomplished. Appropriate seed mixtures will be outlined in the Stormwater Pollution Prevention Plan for the project.

